11 Aug 2008 - 16 Aug 2008

Other Special (OSP) Lectures

Multiple Authors

George Gazetas
OSP 1

GEORGE GAZETAS
Professor of Soil
Mechanics / Dynamics
Department of Civil Engineering
National Technical University, Athens , Greece
Fax : +301-6007699
email: gazetas@compulink.gr

EDUCATION
Diploma in Civil Engineering National Technical University of Athens, Greece (NTUA): [1973]
M.S. Massachusetts Institute of Technology (MIT): [1975]
Ph.D. Massachusetts Institute of Technology (MIT) : [1976]

ACADEMIC POSITIONS :
Case Western Reserve University, Cleveland, Ohio, Assistant Professor, [1978-198]
Rensselaer Polytechnic Institute (RPI), Troy, NY , Associate Professor, [1981-1985]
National Technical Univ., Athens, Professor of Soil Mechanics , [1985-present]
State University of New York at Buffalo, Professor of Civil Engineering [1989-1993]

HONORS and AWARDS :
2002 Distinguished Lecture Award of the Japanese Society of Civil Engineers (JSCE)
1997 T. K. Hsieh Award (Institution of Civil Engineers, London)
1990 Shamsher Prakash Research Award (S. Prakash Research Foundation)
1988 Walter L. Huber Civil Engineering Research Prize [American Society of Civil Engineers (ASCE)]
1985 James Croes Medal (ASCE)
1982 Alfred Noble Prize (ASME, AIM, ASCE, IEEE)
1973 Hrysoverghis Award (National Tech.University)
1973 , 1972 Technical Chamber of Greece : First Prize
1973 , 1972 D. Thomaides Award (National Tech.University)
1970 D. Pippas Geometry Prize

RESEARCH and PUBLICATIONS :
Researcher in the fields of Geotechnical Earthquake Engineering, Soil Mechanics and Foundations.
Author of over 200 research publications in international journals and conference proceedings.

George Gazetas
OSP 1 – cont.

ENGINEERING PROJECTS :
Consultant and Designer in public and private engineering projects in Greece, as well as in U.S.A. , Japan, U.K., Germany, and Venezuela. Topics related to geotechnical earthquake engineering and foundation engineering.

KEYNOTE LECTURES :
State-of- the-art and keynote speaker in several national and international conferences and symposia.

D.S. "Sax" Saxena
OSP 2

Dhirendra S. Saxena (Sax), P.E.
CEO & Chief Consultant
ASC geosciences, inc., Lakeland, Florida

Dhirendra S. Saxena (Sax), P.E. obtained his M.Eng in Civil Engineering 1967-68 from TUNS (formerly NSTC), Halifax, Canada; B.Tech (Hons.) in Civil Engineering 1962 from I.I.T. Kharagpur, India; and B.Sc. in Basic Sciences 1957 from Allahabad University, India.

He is the Founder, CEO and Chief Consultant of ASC geosciences, inc. and located at their corporate office in Lakeland, Florida. Under his guidance, the company has grown, since it was established in 1984, to a 90 employee well reputed geotechnical consulting firm serving primarily the southeastern USA. In addition to providing general direction to the firm he spearheads the firm's expansion into the international markets.

Sax is, or has been, a registered professional engineer in seven states. He is an active member of numerous professional societies, and is a Fellow member of ASCE, NSPE (FES) and NAFE. He is also a board certified diplomate in Forensic Engineering by National Academy of Forensic Engineers (NAFE). He has authored, co-authored, presented, and published over 60 technical papers at local, state, national, and international conferences. He has also presented invited lectures at various international conferences and to various professional groups and institutions. He has received, and been conferred, prestigious engineering society awards throughout his professional career including outstanding service to the engineering profession in 1994 by Florida Engineering Society and engineer of the year by Florida Section of American Society of Civil Engineers in 2004.

Spanning more than 40 years, Sax's geotechnical engineering career has been extensive. His assignments have ranged from a tidal power hydroelectric project study and the Bay of Fundy, Nova Scotia, to Churchill River Diversion Works in northern Manitoba in Canada, to Coca Cola complex in Portland, Oregon, to offshore drilling platforms in the Gulf of Mexico, to Turkey Point nuclear power plant in south Florida, and to Disney World in Orlando, Florida. His areas of specialization include vibration damage evaluation, ground improvement/reinforcement, deep foundations, sinkhole evaluations, and forensic geotechnical engineering applications in geo-domains.

George E. Leventis
OSP 3

Principal/Langan Engineering and Environmental Services, P.C.
President/Langan International

As a principal of Langan Engineering and Environmental Services and President of Langan International, George Leventis contributes actively in the running of this 600+ person, 36-year-old consulting firm, specializing in Land Development, Geotechnical, Environmental, and Natural Resources Engineering.

Over the years, Mr. Leventis has been directly responsible for client support and development in New York City. His responsibilities include technical direction and supervision, office and financial management, public relations, and business development/marketing to real estate developers, lending institutions, architects, public agencies and construction managers.

Mr. Leventis has served as Technical Advisor to Commercial banks on privately financed and public-private partnership projects. In this capacity, he was instrumental in the successful Financial closing for the Rion-Antirion Link, a $1 Billion USD bridge in Greece, and a vital transportation link for the Trans-European Road Network and was responsible towards the lenders for all cost and schedule matters related to design and construction. Recent assignments related to concession projects include the evaluation of the potential privatization of the Athens Metro expansion and the Chacao Channel Bridge in Chile.

In 1999 and 2000, Mr. Leventis served as Director General of the Organizing Committee for the Olympic Games, Athens 2004, S.A. He moved to Athens, Greece in January 1999, where his primary responsibilities covered all activities related to Olympic works including the development of new venues (such as the 4 million square foot Olympic Village, the Multi-Use Arena, and the Olympic Equestrian, Sailing, and Rowing Centers) and the evaluation of their potential for privatization. He was also in charge of establishing the Athens 2004 Environmental Strategy, Initiatives and Guidelines.

Following completion of his Athens Olympic Games assignment, Mr. Leventis returned to Langan where, in addition to his normal duties, he spearheads the firm's expansion into the International markets. In New York City, Mr. Leventis' involvement includes numerous projects such as the new Farley Post Office Penn Station Redevelopment, the Javits Center expansion, the new Giants/Jets Stadium, the UN Capital program, etc.

George E. Leventis
OSP 3 – cont.

Mr. Leventis holds a Bachelor of Science Degree in Civil Engineering from the National Technical University of Athens and a Master of Science Degree from the University of Illinois at Urbana-Champaign. He is a member of numerous professional organizations including the New York Building Congress, American Consulting Engineers Council, American Society of Civil Engineers, International Society of Soil Mechanics and Foundation Engineering, American Management Association and others. Mr. Leventis has been awarded the National Grand Award from American Consulting Engineers Council for his work on the Rion-Antirion Bridge, National Honor Award from the ACEC for his work on the New York Hospital expansion over the FDR Drive in Manhattan, and the Grand Award of the State of New Jersey for his work on the Liberty Science Center on the Hudson River. The Rion-Antirion Bridge won the 2005 Outstanding Civil Engineers Achievement Award from the American Society of Civil Engineers ASCE).

Tony D. Canale
OSP 4

Mr. Canale joined Mueser Rutledge Consulting Engineers in 1998 as a Geotechnical Engineer. He was named an Associate in 2004. In 2008, he became the Supervisor of the firm's Geotechnical Group. He received a Bachelors degree in Civil Engineering from Manhattan College in 1994 and a Masters Degree from Virginia Polytechnic University in 1995. He is a licensed Professional Engineer in the State of New York. Mr. Canale is an Adjunct Professor at Manhattan College, and regularly gives guest lectures to universities in the metropolitan area, presenting the field of geotechnical engineering to engineering students. During the 2008 spring semester, Mr. Canale and other senior staff members of Mueser Rutledge Consulting Engineers presented a 15 week graduate-level course on Foundation Engineering at Manhattan College.

In the past 13 years, Mr. Canale has been involved in a wide range of design projects covering transportation, private development and public structures. He has also managed projects with traditional geotechnical studies such as laboratory testing of undisturbed soil samples, consolidation settlement estimates, slope stability analyses, seepage analyses, and rock bolting design. Among the recent projects he has been involved in are the Tappan Zee Bridge Replacement Study, and several high-rise structures in Manhattan, including the New York Times Headquarters, 5 and 7 Times Square, and One Bryant Park.

Rolf Katzenbach
OSP 5

Prof. Dr- Ing. Rolf Katzenbach graduated from the Technical University Darmstadt in 1976 with Dipl.- Ing. in Civil Engineering. From 1976 to 1981 he worked as scientific co-worker/assistant of Prof. Dr.-Ing. Herbert Breth at the Institute of Soil Mechanics and Foundation Engineering of the Technical University Darmstadt. He got his Ph.D. from the same institute in 1981 with a result of "Summa cum laude." His Ph.D. thesis was "Development in construction and computation in urban tunneling."

Since 1981 he is consulting engineer in Geotechnical Engineering and Environmental Geotechnics. Since 1990 he is sworn expert. Since 1993 he is University professor (full professor) at the Technical University Darmstadt. He is director of the institute and laboratory of Geotechnics. Since then he has established a new lecture series in "Environmental Geotechnics," "Pollution and Remediation" and Transportat process at polluted sites." Since 1993 he is senior partner and co-owner of Inginieursozietat Prof. Dr.- Ing. Katzenbach. Since 1995 he is member DIN-Standards Management Committee, Department 05 "Foundations, Geotechnics." Since 1996 he is member of the managing committee of the German Geotechnical Society. From 1998 to 2002 he was chairman of the technical committee TC5 "Environmental Geotechnics" of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). Since 2000 he is leading member of the European R & D Network GeoTechNet (Geotechnical Network on Polluted Land), Chairman of the CEN-Committee 341 "Geotechnical Investigation and Testing" of European Committee of Standardization, Member of the R & D project "KORA" about distributions of plumes and transport process in contaminated areas, and R & D projects in the field of sealing a geosynthetics. Since 2003 he is chairman of the international technical committee TC18 "Deep Foundations" of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and chairman of the technical committee Environmental Geotechnics, Landfills and contaminated land of the German Geotechncial Society. Since 2004 he is vice-president of the European expert group ELGIP (European Large Geotechnical Institute Platform).

Prof. Katzenbach has published more than 350 papers. He is editorial board member of the International Journal of Geoengineering Case Histories and Acta Geotechnical Slovenia. He consults internationally in Europe, Russia, China, Poland, Vietnam, etc.

Verghese Chummar
OSP 6

Dr. A. Verghese Chummar
F.S.Engineers (P)Ltd
(Foundation and Structural Engineers)
Chennai, India

Managing Director, F.S.Engineers (P)Ltd

Founder and Managing Director of the geotechnical company, F.S.Engineers (P)Ltd.. Dr.Chummar has more than 40 years experience in the geotechnical field and has published several papers. His expertise ranges from sub soil exploration to foundation design.

Degrees in Civil Engineering and Soil Mechanics

He graduated in Civil Engineering from the University of Kerala, India and completed a postgraduate degree in Soil Mechanics and Foundation Engineering from the University of Roorkee in 1965.

Faculty Member at I.I.T. Kharagpur

He joined the Faculty of Civil Engineering at I.I.T. Kharagpur and completed his Ph.D in Civil Engineering in 1969. From 1969 to 1972 Dr.Chummar mentored three students on their M.Tech theses.

Design Projects and Expertise

He set up his consultancy, F.S.Engineers (P)Ltd, in the field of soil exploration and foundation design, in 1972. He has completed over 4500 foundation design projects all over India. He has attended several national and international conferences and presented papers ranging from earthquake design to complicated geotechnical problems and analyses of foundation failures. More than 50 technical papers have been published in different journals.

A. Verghese Chummar
OSP 6 – cont.

Society of Earthquake Technology

Dr.Chummar was the president of the Indian Society of Earthquake Technology.

Educational Qualifications

B.Sc., Engineering, University of Kerala
M.E. Soil Mech, I.I.T. Roorkee
Ph.D ., Civil Engineering , I.I.T. Kharagpur

Current Profession:

Managing Director since 1972
F.S.Engineers Pvt.Ltd, a geotechnical firm
No.109, Velachery Road
Guindy, Chennai 600 032 ,Phone : (044)22351862

Professional Experience

Member, Faculty of Civil Engineering, I.I.T. Kharagpur (1965-72)
Research Scholar, I.I.T. Roorkee (1962 -65)

Nikos Gerolymos
OSP 7

Dr. Nikos Gerolymos
Lecturer* of *Computational Geotechnics
National Technical University, **Athens, Greece**
School of Civil Engineering
Geotechnical Department
e-mail: gerolymos@mycosmos.gr

EDUCATION :

Diploma in Civil Engineering National Technical University of Athens, Greece (NTUA): [1997]
M.S. National Technical University of Athens, Greece (NTUA): [2000]
Ph.D. National Technical University of Athens, Greece (NTUA): [2002]

ACADEMIC POSITIONS :

- 2006–present : *Lecturer* of *Computational Geotechnics*, National Technical University of Athens, School of Civil Engineering, Geotechnical Department
- 2002–2006 : *Research Associate*, National Technical University of Athens, School of Civil Engineering, Geotechnical Department

---

HONORS and AWARDS :

- 1998-2001: Greek Scholarship Foundation: Fellowship for Postgraduate Studies in Geotechnical Engineering
- 1998-1999: Postgraduate Fellow in “Structural Design and Analysis” program
- 1999-2001: Postgraduate Fellow of Geotechnical Department of NTUA

EXPERTISE :

- Practicing geotechnical and earthquake engineer with world-wide project experience.
- Specialized in dynamic soil-structure interaction and modelling/analysis of deep foundations, underground structures, earth-retaining systems, and catastrophic landslides.
- Published more than 10 papers in referred journals and numerous conference proceedings, co-supervisor of more than 15 Diploma and Master Theses, participant as a main researcher in more than 10 research projects.
- Developed analytical methodologies and computer software for nonlinear dynamic analysis of seismic response of soil deposits, Soil-Structure Interaction (including modelling of strong nonlinearities of piles and large caissons), and earthquake-induced rapid landslides.

ENGINEERING PROJECTS :

Participation as a numerical analyst in more than 40 public engineering projects in Greece, as well as in U.S.A., Germany, and U.K.

Mark R. Svinkin
OSP 8

Mark R. Svinkin, Ph.D.
President, VIBRACONSULT, Cleveland, Ohio.
Phone: (216) 397-9625
Email: msvinkin@roadrunner.com

Dr. Svinkin obtained his M.S. in Civil Engineering from Kharkov State Transport University, USSR; M.S. in Mathematics from Kharkov State University, USSR; and Ph.D. in Civil Engineering from Moscow Research Institute of Bases and Underground Structures, USSR.

Dr. Svinkin worked for 25 years as Senior Research Associate for the Kharkov Scientific-Research and Design Institute of Industrial Construction, USSR, where he was involved in consulting practice and research studies of a wide range of vibration problems in industrial construction. In 1970, he received the Exhibition of Achievements of National Economy of the USSR Award for the development of a heavy crusher vibration isolation and design of lightened foundations under them. In 1980, he received the Exhibition of Achievements of National Economy of the USSR Medal for creation and elaboration of a new method for predicting soil and structure vibrations from impact machines. This method was incorporated into the Manual for Design of Machine Foundations in 1982.

From 1991 to 1996, Dr. Svinkin worked as Consulting Engineer for GRL and Associates, Inc., Cleveland, Ohio, USA. He made various research studies in dynamics of pile driving and was responsible for preparation of the driven pile database for the Federal Highway Administration.

Mark R. Svinkin
OSP 8 – cont.

In 1998, Dr. Svinkin founded company VIBRACONSULT. Dr. Svinkin's area of consulting practice includes forensic engineering of intolerable structural vibrations and damage from construction and industrial dynamic sources; prediction, measurement, and analysis of soil and structural vibrations; scientific approach for choosing correct and flexible vibration damage criteria, and analysis of the causes of damage to structures. He has performed research studies of diverse vibration problems such as minimizing construction vibration effects, mitigation of soil movements from pile driving, prediction and calculation of construction vibrations, regulations of construction vibrations, a method for prediction of natural frequencies of machine foundations, a relationship between case and hysteretic damping, a variable damping approach in wave equation analysis of pile driving, engineering judgment in determination of pile capacity by dynamic methods, evaluation of uncertainties in high-strain dynamic pile testing, etc.

Dr. Svinkin received the 2005 ASCE MetSection Geotechnical Group Apple Award and the 2006 ASCE Thomas Fitch Rowland Award.

Dr. Svinkin is the author of three patents and over 130 scientific and technical papers published in Proceedings and Journals. He is a member of several national and international professional societies and technical committees.

Wang Lanmin
OSP 10

Wang Lanmin, Ph.D
National Registered Geotechnical Engineer of China
Professor and Director, Lanzhou Institute of Seismology,
China Earthquake Administration
Address: 450 Donggangxilu Ave., Lanzhou 730000, P. R. China.
E-mail: wanglm@gssb.gov.cn
wlmyj@r5you.com
Tel / Fax: +86-931-8276660 (office)

Prof. Wang Lanmin was born in March 14, 1960. He earned a Master degree in soil dynamics from Lanzhou Institute of Seismology, China Earthquake Administration (CEA) in 1990 and a Ph.D in geotechnical engineering from Institute of Engineering Mechanics, CEA in 2000.

Prof. Wang Lanmin is international expert on soil dynamics and geotechnical earthquake engineering. He is director of Lanzhou Institute of Seismology, CEA as well as National Registered Geotechnical Engineer of China. He has published four books in China and over 100 academic and technical papers, in which the book, *Loess Dynamics,* created a new discipline.